

Title (en)

METHOD OF GENERATING ELECTRICITY WITH A FUEL CELL AND RELATED DEVICE

Title (de)

VERFAHREN ZUM ERZEUGEN VON ELEKTRIZITÄT MIT EINER BRENNSTOFFZELLE UND ZUGEHÖRIGE VORRICHTUNG

Title (fr)

PROCÉDÉ DE PRODUCTION D'ÉLECTRICITE PAR UNE PILE A COMBUSTIBLE ET DISPOSITIF ASSOCIÉ

Publication

**EP 3210253 B1 20181017 (FR)**

Application

**EP 15790608 A 20151020**

Priority

- FR 1460100 A 20141021
- FR 2015052819 W 20151020

Abstract (en)

[origin: CA2965086A1] A process and a device for generating electricity by means of a fuel battery are described, comprising a start-up phase of said battery, and a steady-state operation of said battery, during which said battery, supplied with a hydrogen gas, produces electricity and heat. According to said process, for its start-up, said battery is supplied with a hydrogen gas, containing a volume of at least 70% hydrogen, generated by self-sustained combustion of at least one solid pyrotechnic load hydrogen gas generator; and during its steady-state operation, said battery is supplied with a hydrogen gas, generated by thermal decomposition of at least one solid load hydrogen gas generator; a portion of the heat produced by said battery during operation being transferred to said at least one solid load for start-up and maintenance of its thermal decomposition.

IPC 8 full level

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